

PCT REQUEST

1/5

29 APR 2003

P01090WO1A

Original (for SUBMISSION) - printed on 30.10.2003 03:03 PM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	P01090WO1A
I	Title of invention	THE USE OF SULFUR CONTAINING INITIATORS FOR ANIONIC POLYMERIZATION OF MONOMERS
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	BRIDGESTONE CORPORATION
II-5	Address:	10-1, Kyobashi 1-Chome Chuo-Ku Tokyo, Tokyo 104 Japan
II-6	State of nationality	JP
II-7	State of residence	JP
II-8	Telephone No.	+ 81 (422) 56-3411
II-9	Facsimile No.	+ 81 (422) 56-3412
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	HOGAN, Terrence
III-1-5	Address:	557 Westminster Circle Akron, OH 44319 United States of America
III-1-6	State of nationality	US
III-1-7	State of residence	US

MDC / MRR

NOV 04 2003

BEST AVAILABLE COPY

PCT REQUEST

1/5

P01090WO1A

Original (for SUBMISSION) - printed on 30.10.2003 3 PM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	P01090WO1A
I	Title of invention	THE USE OF SULFUR CONTAINING INITIATORS FOR ANIONIC POLYMERIZATION OF MONOMERS
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	BRIDGESTONE CORPORATION
II-5	Address:	10-1, Kyobashi 1-Chome Chuo-Ku Tokyo, Tokyo 104 Japan
II-6	State of nationality	JP
II-7	State of residence	JP
II-8	Telephone No.	+ 81 (422) 56-3411
II-9	Facsimile No.	+ 81 (422) 56-3412
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	HOGAN, Terrence
III-1-5	Address:	557 Westminster Circle Akron, OH 44319 United States of America
III-1-6	State of nationality	US
III-1-7	State of residence	US

MDC / MRR

NOV 04 2003

BEST AVAILABLE COPY

1-4-1	Title of the invention	THE USE OF SULFUR CONTAINING INITIATORS FOR ANIONIC POLYMERIZATION OF MONOMERS
1-4-2	Applicant's or agent's file reference	P1090W01A
1-4-3	International application number (if already available)	
1-4-4	filed with the following Office as receiving Office	United States Patent and Trademark Office (USPTO) (RO/US)
1-5	and to make or receive payments on behalf of the undersigned.	

Certificate of Express Mailing

Pursuant to 37 CFR 1.10 I certify that this PCT application is being deposited on the date indicated below with the United States Postal Service "Express Mail Post Office to Addressee" service addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Mailing Label No.
EL706979412US
Date of Deposit
<i>October 30, 2003</i>

Signature of Person Mailing Application
<i>Meredith E. Palmer</i>
Meredith E. Palmer

BEST AVAILABLE COPY

III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	HERGENROTHER, William
III-2-5	Address:	195 Dorchester Road Akron, OH 44313 United States of America
III-2-6	State of nationality	US
III-2-7	State of residence	US
III-3	Applicant and/or inventor	
III-3-1	This person is:	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	YAN, Yuan-Yong
III-3-5	Address:	613 Redfield Lane Copley, OH 44321 United States of America
III-3-6	State of nationality	CN
III-3-7	State of residence	US
III-4	Applicant and/or inventor	
III-4-1	This person is:	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	LAWSON, David
III-4-5	Address:	11621 Garden Lane, N.W. Uniontown, OH 44685 United States of America
III-4-6	State of nationality	US
III-4-7	State of residence	US
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name	VASUTA
IV-1-2	Address:	Bridgestone Americas Holding, Inc. 1200 Firestone Parkway Akron, OH 44317 United States of America
IV-1-3	Telephone No.	330-379-6850
IV-1-4	Facsimile No.	330-379-4064
IV-1-5	e-mail	iplaw@bfusa.com
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	PALMER, Meredith(47,839); HUBER, Michael(44,783); KROGH, Timothy(40,688)

BEST AVAILABLE COPY

IV-3	Additional agent(s)	agent
IV-3-1	Name (LAST, First)	BOBAK, Donald
IV-3-2	Address:	First National Tower Fourth Floor Akron, OH 44308 United States of America
IV-3-3	Telephone No.	330-376-1242
IV-3-4	Facsimile No.	330-376-9646
IV-3-5	e-mail	djbobak@rennerkenner.com
IV-3-6	Agent's registration No.	27,182
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	JP US
V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	30 October 2002 (30.10.2002)
VI-1-2	Number	60/422,461
VI-1-3	Country	US
VI-2	Priority claim of earlier national application	
VI-2-1	Filing date	18 March 2003 (18.03.2003)
VI-2-2	Number	60/455,508
VI-2-3	Country	US
VI-3	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-2

VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	5	-
IX-2	Description	39	-
IX-3	Claims	6	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	0	-
IX-7	TOTAL	51	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	<i>Meredith Palmer</i>	
X-1-1	Name (LAST, First)	PALMER, Meredith	

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP

BEST AVAILABLE COPY

PCT REQUEST

5/5

P01090WO1A

Original (for SUBMISSION) - printed on 30.10.2003 09:13 PM

10-6	Transmittal of search copy delayed until search fee is paid	
------	--	--

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
------	---	--

BEST AVAILABLE COPY

ABSTRACT OF THE DISCLOSURE

An initiator is presented for anionically polymerizing monomers, to provide a functional head group on the polymer. A polymer having a functional head group derived from a sulfur containing anionic initiator, and optionally as additional functional groups resulting from the use of a functional terminating reagent, coupling agent or linking agent is also provided. A method is presented for anionically polymerizing monomers comprising the step of polymerizing the monomers with a sulfur containing anionic initiator to provide a functional head group on the polymer. An elastomeric compound, comprising a functional polymer and filler is also described. Also provided is a tire having decreased rolling resistance resulting from a tire component containing a vulcanizable elastomeric compound.

PCT POWER OF ATTORNEY

P01090W01A

Printed on 28.10.2003 11:35:02 AM

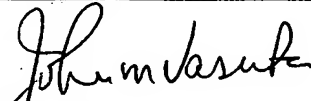


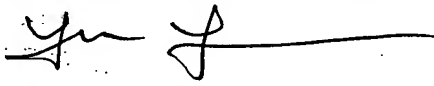

0-1	PCT Power of Attorney (for an International application filed under the Patent Cooperation Treaty) (PCT Rule 90.4)	
0-1-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
1	The undersigned applicant(s)	BRIDGESTONE CORPORATION; HOGAN, Terrence; HERGENROTHER, William; YAN, Yuan-Yong; LAWSON, David
1-1-1	hereby appoints (appoint) the following person	PALMER, Meredith; VASUTA, John; TIDWELL, Greer; KROGH, Timothy Bridgestone/Firestone 1200 Firestone Parkway Akron, OH 44317 United States of America
1-1-2	hereby appoints (appoint) the following person	BOBAK, Donald Renner, Kenner, Greive, Bobak, Taylor & Weber First National Tower - 4th Floor Akron, OH 44308 United States of America
1-1-3	hereby appoints (appoint) the following person	REGINELLI, Arthur Renner, Kenner, Greive, Bobak, Taylor & Weber First National Tower - 4th Floor Akron, OH 44308 United States of America
1-2	as	agent
1-3	to represent the undersigned before	all the competent International Authorities
1-4	in connection with the international application identified below:	
1-4-1	Title of the invention	THE USE OF SULFUR CONTAINING INITIATORS FOR ANIONIC POLYMERIZATION OF MONOMERS
1-4-2	Applicant's or agent's file reference	P01090W01A
1-4-3	International application number (if already available)	
1-4-4	filed with the following Office as receiving Office	United States Patent and Trademark Office (USPTO) (RO/US)
1-5	and to make or receive payments on behalf of the undersigned.	

PCT POWER OF ATTORNEY

2/2

P01090WO1A

Printed on 28.10.2003 11:35:02 AM

2-1	Signature of applicant	
2-1-1	Name	BRIDGESTONE CORPORATION
2-1-2	Name of signatory	John Vasuta, Esq.
2-1-3	Capacity	Chief I.P. Counsel/Secretary (Asst.)
2-2	Signature of applicant	
2-2-1	Name	HOGAN, Terrence
2-3	Signature of applicant	
2-3-1	Name	HERGENROTHER, William
2-4	Signature of applicant	
2-4-1	Name	YAN, Yuan-Yong
2-5	Signature of applicant	
2-5-1	Name	LAWSON, David
3	Date	